

BILL BARRETT CORP

WELD COUNTY, COLORADO

Anschutz O'Brien 5-61-33-57H

Anschutz O'Brien 5-61-33-57H

Anschutz O'Brien 5-61-33-57H

Plan: Design #1

Standard Planning Report

26 September, 2012



Bill Barrett Corporation

SITE DETAILS: Anschutz O'Brien 5-61-33-57H
Briggsdale

COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

Site Latitude: 40° 21' 48.971 N
Site Longitude: 104° 12' 38.441 W

Positional Uncertainty: 0.0
Convergence: 0.83
Local North: True

WELL DETAILS: Anschutz O'Brien 5-61-33-57H

Ground Level: 4567.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1377913.04	3359269.66	40° 21' 48.971 N	104° 12' 38.441 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
5-61-33-57H BTV	4922.0	331.1	1060.4	40° 21' 52.243 N	104° 12' 24.741 W	Point
5-61-33-57H LP	5995.0	-240.0	1058.9	40° 21' 46.598 N	104° 12' 24.761 W	Point
5-61-33-57H PBHL	6005.0	-4319.0	1049.1	40° 21' 6.289 N	104° 12' 24.890 W	Point

SECTION DETAILS

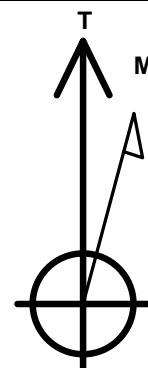
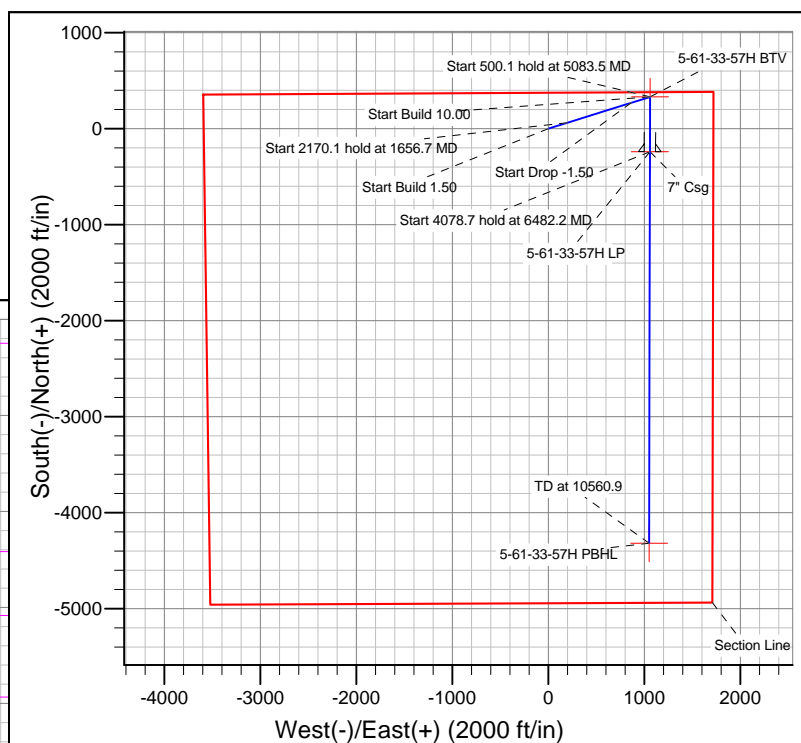
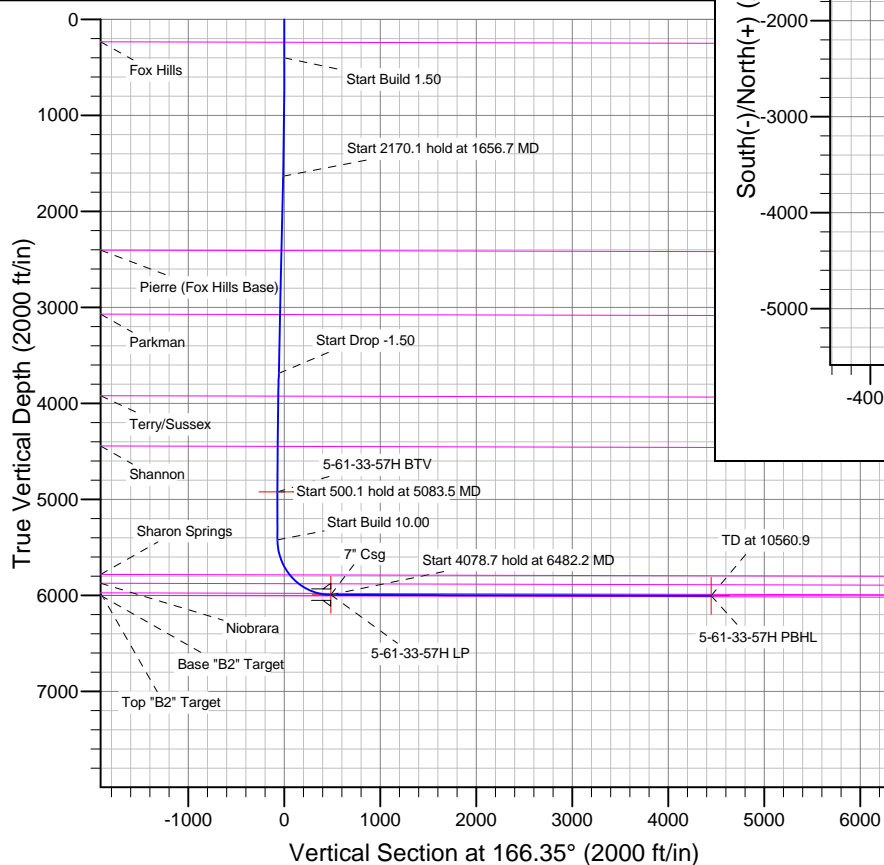
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1656.7	18.85	72.66	1634.2	61.1	195.6	1.50	72.66	-13.2	
4	3826.8	18.85	72.66	3687.8	270.1	864.8	0.00	0.00	-58.3	
5	5083.5	0.00	0.00	4922.0	331.1	1060.4	1.50	180.00	-71.5	5-61-33-57H BTV
6	5583.6	0.00	0.00	5422.1	331.1	1060.4	0.00	0.00	-71.5	
7	6482.2	89.86	180.14	5995.0	-240.4	1059.0	10.00	180.14	483.6	
8	10560.9	89.86	180.14	6005.0	-4319.0	1049.0	0.00	0.00	4444.6	5-61-33-57H PBHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
240.0	240.0	Base "B2" Target
2409.7	2476.2	Fox Hills
3074.5	3178.7	Pierre (Fox Hills Base)
3924.3	4074.1	Parkman
4449.2	4609.5	Terry/Sussex
5786.5	5978.5	Shannon
5879.7	6113.7	Sharon Springs
5980.3	6353.2	Niobrara
		Top "B2" Target

CASING DETAILS

TVD	MD	Name	Size
5995.0	6482.2	7" Csg	7



Azimuths to True North
Magnetic North: 8.40°

Magnetic Field
Strength: 53045.4snT
Dip Angle: 67.07°
Date: 8/29/2012
Model: IGRF2010

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well Anschutz O'Brien 5-61-33-57H
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 4589.0ft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	WELL @ 4589.0ft (Original Well Elev)
Site:	Anschutz O'Brien 5-61-33-57H	North Reference:	True
Well:	Anschutz O'Brien 5-61-33-57H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anschutz O'Brien 5-61-33-57H		
Design:	Design #1		

Project	WELD COUNTY, COLORADO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Anschutz O'Brien 5-61-33-57H			
Site Position:		Northing:	1,377,913.05 ft	Latitude:	40° 21' 48.971 N
From:	Lat/Long	Easting:	3,359,269.66 ft	Longitude:	104° 12' 38.441 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.83 °

Well		Anschutz O'Brien 5-61-33-57H				
Well Position	+N/-S	0.0 ft	Northing:	1,377,913.04 ft	Latitude:	40° 21' 48.971 N
	+E/-W	0.0 ft	Easting:	3,359,269.66 ft	Longitude:	104° 12' 38.441 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,567.0 ft

Wellbore	Anschutz O'Brien 5-61-33-57H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/29/2012	8.40	67.07	53,045

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	166.35

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,656.7	18.85	72.66	1,634.2	61.1	195.6	1.50	1.50	0.00	72.66	
3,826.8	18.85	72.66	3,687.8	270.1	864.8	0.00	0.00	0.00	0.00	
5,083.5	0.00	0.00	4,922.0	331.1	1,060.4	1.50	-1.50	0.00	180.00	5-61-33-57H BTV
5,583.6	0.00	0.00	5,422.1	331.1	1,060.4	0.00	0.00	0.00	0.00	
6,482.2	89.86	180.14	5,995.0	-240.4	1,059.0	10.00	10.00	0.00	180.14	
10,560.9	89.86	180.14	6,005.0	-4,319.0	1,049.0	0.00	0.00	0.00	0.00	5-61-33-57H PBHL

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Site:	Anschutz O'Brien 5-61-33-57H	North Reference:	True
Well:	Anschutz O'Brien 5-61-33-57H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anschutz O'Brien 5-61-33-57H		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
Fox Hills									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	1.50	72.66	500.0	0.4	1.2	-0.1	1.50	1.50	0.00
600.0	3.00	72.66	599.9	1.6	5.0	-0.3	1.50	1.50	0.00
700.0	4.50	72.66	699.7	3.5	11.2	-0.8	1.50	1.50	0.00
800.0	6.00	72.66	799.3	6.2	20.0	-1.3	1.50	1.50	0.00
900.0	7.50	72.66	898.6	9.7	31.2	-2.1	1.50	1.50	0.00
1,000.0	9.00	72.66	997.5	14.0	44.9	-3.0	1.50	1.50	0.00
1,100.0	10.50	72.66	1,096.1	19.1	61.1	-4.1	1.50	1.50	0.00
1,200.0	12.00	72.66	1,194.2	24.9	79.7	-5.4	1.50	1.50	0.00
1,300.0	13.50	72.66	1,291.7	31.5	100.7	-6.8	1.50	1.50	0.00
1,400.0	15.00	72.66	1,388.6	38.8	124.2	-8.4	1.50	1.50	0.00
1,500.0	16.50	72.66	1,484.9	46.9	150.1	-10.1	1.50	1.50	0.00
1,600.0	18.00	72.66	1,580.4	55.7	178.5	-12.0	1.50	1.50	0.00
1,656.7	18.85	72.66	1,634.2	61.1	195.6	-13.2	1.50	1.50	0.00
1,700.0	18.85	72.66	1,675.1	65.2	208.9	-14.1	0.00	0.00	0.00
1,800.0	18.85	72.66	1,769.8	74.9	239.8	-16.2	0.00	0.00	0.00
1,900.0	18.85	72.66	1,864.4	84.5	270.6	-18.2	0.00	0.00	0.00
2,000.0	18.85	72.66	1,959.0	94.1	301.4	-20.3	0.00	0.00	0.00
2,100.0	18.85	72.66	2,053.7	103.8	332.3	-22.4	0.00	0.00	0.00
2,200.0	18.85	72.66	2,148.3	113.4	363.1	-24.5	0.00	0.00	0.00
2,300.0	18.85	72.66	2,242.9	123.0	394.0	-26.6	0.00	0.00	0.00
2,400.0	18.85	72.66	2,337.6	132.7	424.8	-28.6	0.00	0.00	0.00
2,476.2	18.85	72.66	2,409.7	140.0	448.3	-30.2	0.00	0.00	0.00
Pierre (Fox Hills Base)									
2,500.0	18.85	72.66	2,432.2	142.3	455.6	-30.7	0.00	0.00	0.00
2,600.0	18.85	72.66	2,526.9	151.9	486.5	-32.8	0.00	0.00	0.00
2,700.0	18.85	72.66	2,621.5	161.6	517.3	-34.9	0.00	0.00	0.00
2,800.0	18.85	72.66	2,716.1	171.2	548.2	-37.0	0.00	0.00	0.00
2,900.0	18.85	72.66	2,810.8	180.8	579.0	-39.0	0.00	0.00	0.00
3,000.0	18.85	72.66	2,905.4	190.4	609.8	-41.1	0.00	0.00	0.00
3,100.0	18.85	72.66	3,000.0	200.1	640.7	-43.2	0.00	0.00	0.00
3,178.7	18.85	72.66	3,074.5	207.7	665.0	-44.8	0.00	0.00	0.00
Parkman									
3,200.0	18.85	72.66	3,094.7	209.7	671.5	-45.3	0.00	0.00	0.00
3,300.0	18.85	72.66	3,189.3	219.3	702.4	-47.4	0.00	0.00	0.00
3,400.0	18.85	72.66	3,283.9	229.0	733.2	-49.4	0.00	0.00	0.00
3,500.0	18.85	72.66	3,378.6	238.6	764.1	-51.5	0.00	0.00	0.00
3,600.0	18.85	72.66	3,473.2	248.2	794.9	-53.6	0.00	0.00	0.00
3,700.0	18.85	72.66	3,567.9	257.9	825.7	-55.7	0.00	0.00	0.00
3,800.0	18.85	72.66	3,662.5	267.5	856.6	-57.8	0.00	0.00	0.00
3,826.8	18.85	72.66	3,687.8	270.1	864.8	-58.3	0.00	0.00	0.00
3,900.0	17.75	72.66	3,757.4	276.9	886.8	-59.8	1.50	-1.50	0.00
4,000.0	16.25	72.66	3,853.0	285.6	914.7	-61.7	1.50	-1.50	0.00
4,074.1	15.14	72.66	3,924.3	291.6	933.8	-63.0	1.50	-1.50	0.00
Terry/Sussex									
4,100.0	14.75	72.66	3,949.3	293.6	940.2	-63.4	1.50	-1.50	0.00
4,200.0	13.25	72.66	4,046.4	300.8	963.3	-65.0	1.50	-1.50	0.00
4,300.0	11.75	72.66	4,144.0	307.3	984.0	-66.4	1.50	-1.50	0.00

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Well:	Anschutz O'Brien 5-61-33-57H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anschutz O'Brien 5-61-33-57H		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,400.0	10.25	72.66	4,242.1	313.0	1,002.2	-67.6	1.50	-1.50	0.00
4,500.0	8.75	72.66	4,340.8	317.9	1,017.9	-68.7	1.50	-1.50	0.00
4,600.0	7.25	72.66	4,439.8	322.0	1,031.2	-69.5	1.50	-1.50	0.00
4,609.5	7.11	72.66	4,449.2	322.4	1,032.4	-69.6	1.50	-1.50	0.00
Shannon									
4,700.0	5.75	72.66	4,539.2	325.4	1,042.0	-70.3	1.50	-1.50	0.00
4,800.0	4.25	72.66	4,638.8	328.0	1,050.4	-70.8	1.50	-1.50	0.00
4,900.0	2.75	72.66	4,738.6	329.8	1,056.2	-71.2	1.50	-1.50	0.00
5,000.0	1.25	72.66	4,838.5	330.9	1,059.5	-71.5	1.50	-1.50	0.00
5,083.5	0.00	0.00	4,922.0	331.1	1,060.4	-71.5	1.50	-1.50	-87.02
5-61-33-57H BTV									
5,100.0	0.00	0.00	4,938.5	331.1	1,060.4	-71.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,038.5	331.1	1,060.4	-71.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,138.5	331.1	1,060.4	-71.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,238.5	331.1	1,060.4	-71.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,338.5	331.1	1,060.4	-71.5	0.00	0.00	0.00
5,583.6	0.00	0.00	5,422.1	331.1	1,060.4	-71.5	0.00	0.00	0.00
5,600.0	1.64	180.14	5,438.5	330.9	1,060.4	-71.3	10.00	10.00	0.00
5,700.0	11.64	180.14	5,537.7	319.4	1,060.4	-60.1	10.00	10.00	0.00
5,800.0	21.64	180.14	5,633.4	290.8	1,060.3	-32.3	10.00	10.00	0.00
5,900.0	31.64	180.14	5,722.7	246.0	1,060.2	11.2	10.00	10.00	0.00
5,978.5	39.50	180.14	5,786.5	200.3	1,060.1	55.5	10.00	10.00	0.00
Sharon Springs									
6,000.0	41.64	180.14	5,802.8	186.4	1,060.0	69.1	10.00	10.00	0.00
6,100.0	51.64	180.14	5,871.4	113.8	1,059.9	139.6	10.00	10.00	0.00
6,113.7	53.01	180.14	5,879.7	102.9	1,059.8	150.1	10.00	10.00	0.00
Niobrara									
6,200.0	61.64	180.14	5,926.3	30.3	1,059.7	220.6	10.00	10.00	0.00
6,300.0	71.64	180.14	5,965.9	-61.3	1,059.4	309.7	10.00	10.00	0.00
6,353.2	76.96	180.14	5,980.3	-112.5	1,059.3	359.4	10.00	10.00	0.00
Top "B2" Target									
6,400.0	81.64	180.14	5,989.0	-158.5	1,059.2	404.0	10.00	10.00	0.00
6,481.8	89.82	180.14	5,995.0	-240.0	1,059.0	483.2	10.00	10.00	0.00
5-61-33-57H LP									
6,482.2	89.86	180.14	5,995.0	-240.4	1,059.0	483.6	10.00	10.00	0.00
7" Csg									
6,500.0	89.86	180.14	5,995.1	-258.2	1,059.0	500.9	0.00	0.00	0.00
6,600.0	89.86	180.14	5,995.3	-358.2	1,058.7	598.0	0.00	0.00	0.00
6,700.0	89.86	180.14	5,995.6	-458.2	1,058.5	695.1	0.00	0.00	0.00
6,800.0	89.86	180.14	5,995.8	-558.2	1,058.2	792.2	0.00	0.00	0.00
6,900.0	89.86	180.14	5,996.1	-658.2	1,058.0	889.3	0.00	0.00	0.00
7,000.0	89.86	180.14	5,996.3	-758.2	1,057.7	986.4	0.00	0.00	0.00
7,100.0	89.86	180.14	5,996.6	-858.2	1,057.5	1,083.6	0.00	0.00	0.00
7,200.0	89.86	180.14	5,996.8	-958.2	1,057.2	1,180.7	0.00	0.00	0.00
7,300.0	89.86	180.14	5,997.0	-1,058.2	1,057.0	1,277.8	0.00	0.00	0.00
7,400.0	89.86	180.14	5,997.3	-1,158.2	1,056.8	1,374.9	0.00	0.00	0.00
7,500.0	89.86	180.14	5,997.5	-1,258.2	1,056.5	1,472.0	0.00	0.00	0.00
7,600.0	89.86	180.14	5,997.8	-1,358.2	1,056.3	1,569.1	0.00	0.00	0.00
7,700.0	89.86	180.14	5,998.0	-1,458.2	1,056.0	1,666.3	0.00	0.00	0.00
7,800.0	89.86	180.14	5,998.3	-1,558.2	1,055.8	1,763.4	0.00	0.00	0.00
7,900.0	89.86	180.14	5,998.5	-1,658.2	1,055.5	1,860.5	0.00	0.00	0.00
8,000.0	89.86	180.14	5,998.8	-1,758.2	1,055.3	1,957.6	0.00	0.00	0.00
8,100.0	89.86	180.14	5,999.0	-1,858.2	1,055.1	2,054.7	0.00	0.00	0.00

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Wellbore:	Anschutz O'Brien 5-61-33-57H		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,200.0	89.86	180.14	5,999.2	-1,958.2	1,054.8	2,151.8	0.00	0.00	0.00	
8,300.0	89.86	180.14	5,999.5	-2,058.2	1,054.6	2,249.0	0.00	0.00	0.00	
8,400.0	89.86	180.14	5,999.7	-2,158.2	1,054.3	2,346.1	0.00	0.00	0.00	
8,500.0	89.86	180.14	6,000.0	-2,258.2	1,054.1	2,443.2	0.00	0.00	0.00	
8,600.0	89.86	180.14	6,000.2	-2,358.2	1,053.8	2,540.3	0.00	0.00	0.00	
8,700.0	89.86	180.14	6,000.5	-2,458.2	1,053.6	2,637.4	0.00	0.00	0.00	
8,800.0	89.86	180.14	6,000.7	-2,558.2	1,053.3	2,734.5	0.00	0.00	0.00	
8,900.0	89.86	180.14	6,001.0	-2,658.2	1,053.1	2,831.7	0.00	0.00	0.00	
9,000.0	89.86	180.14	6,001.2	-2,758.2	1,052.9	2,928.8	0.00	0.00	0.00	
9,100.0	89.86	180.14	6,001.4	-2,858.2	1,052.6	3,025.9	0.00	0.00	0.00	
9,200.0	89.86	180.14	6,001.7	-2,958.2	1,052.4	3,123.0	0.00	0.00	0.00	
9,300.0	89.86	180.14	6,001.9	-3,058.2	1,052.1	3,220.1	0.00	0.00	0.00	
9,400.0	89.86	180.14	6,002.2	-3,158.2	1,051.9	3,317.2	0.00	0.00	0.00	
9,500.0	89.86	180.14	6,002.4	-3,258.2	1,051.6	3,414.4	0.00	0.00	0.00	
9,600.0	89.86	180.14	6,002.7	-3,358.2	1,051.4	3,511.5	0.00	0.00	0.00	
9,700.0	89.86	180.14	6,002.9	-3,458.2	1,051.1	3,608.6	0.00	0.00	0.00	
9,800.0	89.86	180.14	6,003.2	-3,558.2	1,050.9	3,705.7	0.00	0.00	0.00	
9,900.0	89.86	180.14	6,003.4	-3,658.2	1,050.7	3,802.8	0.00	0.00	0.00	
10,000.0	89.86	180.14	6,003.6	-3,758.2	1,050.4	3,899.9	0.00	0.00	0.00	
10,100.0	89.86	180.14	6,003.9	-3,858.2	1,050.2	3,997.1	0.00	0.00	0.00	
10,200.0	89.86	180.14	6,004.1	-3,958.2	1,049.9	4,094.2	0.00	0.00	0.00	
10,300.0	89.86	180.14	6,004.4	-4,058.2	1,049.7	4,191.3	0.00	0.00	0.00	
10,400.0	89.86	180.14	6,004.6	-4,158.2	1,049.4	4,288.4	0.00	0.00	0.00	
10,500.0	89.86	180.14	6,004.9	-4,258.2	1,049.2	4,385.5	0.00	0.00	0.00	
10,560.8	89.86	180.14	6,005.0	-4,319.0	1,049.0	4,444.6	0.00	0.00	0.00	
5-61-33-57H PBHL										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
6,482.2	5,995.0	7" Csg	7	8-3/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
240.0	240.0	Fox Hills		0.14	180.14	
2,476.2	2,410.0	Pierre (Fox Hills Base)		0.14	180.14	
3,178.7	3,075.0	Parkman		0.14	180.14	
4,074.1	3,925.0	Terry/Sussex		0.14	180.14	
4,609.5	4,450.0	Shannon		0.14	180.14	
5,978.5	5,787.0	Sharon Springs		0.14	180.14	
6,113.7	5,880.0	Niobrara		0.14	180.14	
6,353.2	5,980.0	Top "B2" Target		0.14	180.14	
	6,005.0	Base "B2" Target		0.14	180.14	